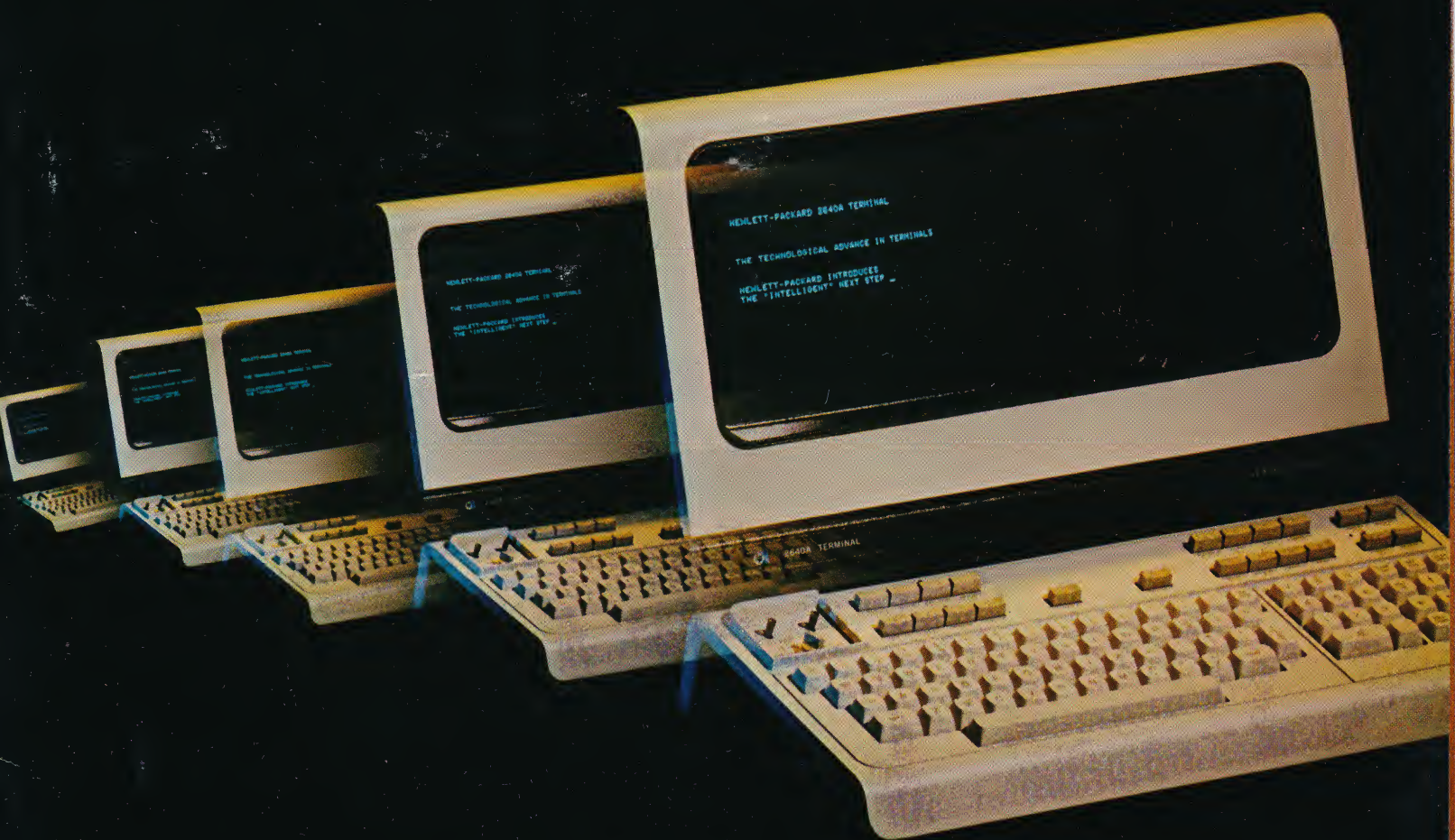


Hewlett-Packard  
2640A

The technological  
advance in terminals

Nov  
75

Hewlett-Packard introduces the "intelligent" next step:



## **Hewlett-Packard 2640A Terminal**

**The intelligent next step...  
engineered to meet  
your information  
handling needs**

The HP 2640A. Engineered for the FUTURE. On hand TODAY. This powerful, flexible interactive display terminal includes its own microprocessor — under firmware control — to save you valuable time and computing resources.

The 2640A operates in character or block mode. Stand-alone or on-line. With full editing capability. The wide range of applications you can perform on the 2640A include:

- data entry and preparation
- information display and editing
- interactive programming
- data communications
- timesharing operations

Ease of operation and outstanding display clarity are human considerations built into the 2640A. And, the 2640A speaks your language — up to four plug-in 128-character sets can be used concurrently, including a line drawing set and math character set, in addition to features such as inverse video, underlining, blink and half-bright.

Both user and computer processing time can be significantly reduced with off-line operation by such standard features as: dynamically allocated memory for efficient off-screen storage; scrolling and page select capability; programmable protected fields; special function keys; display enhancements; memory protect; character or line insert and delete; and cursor addressability and positioning control.

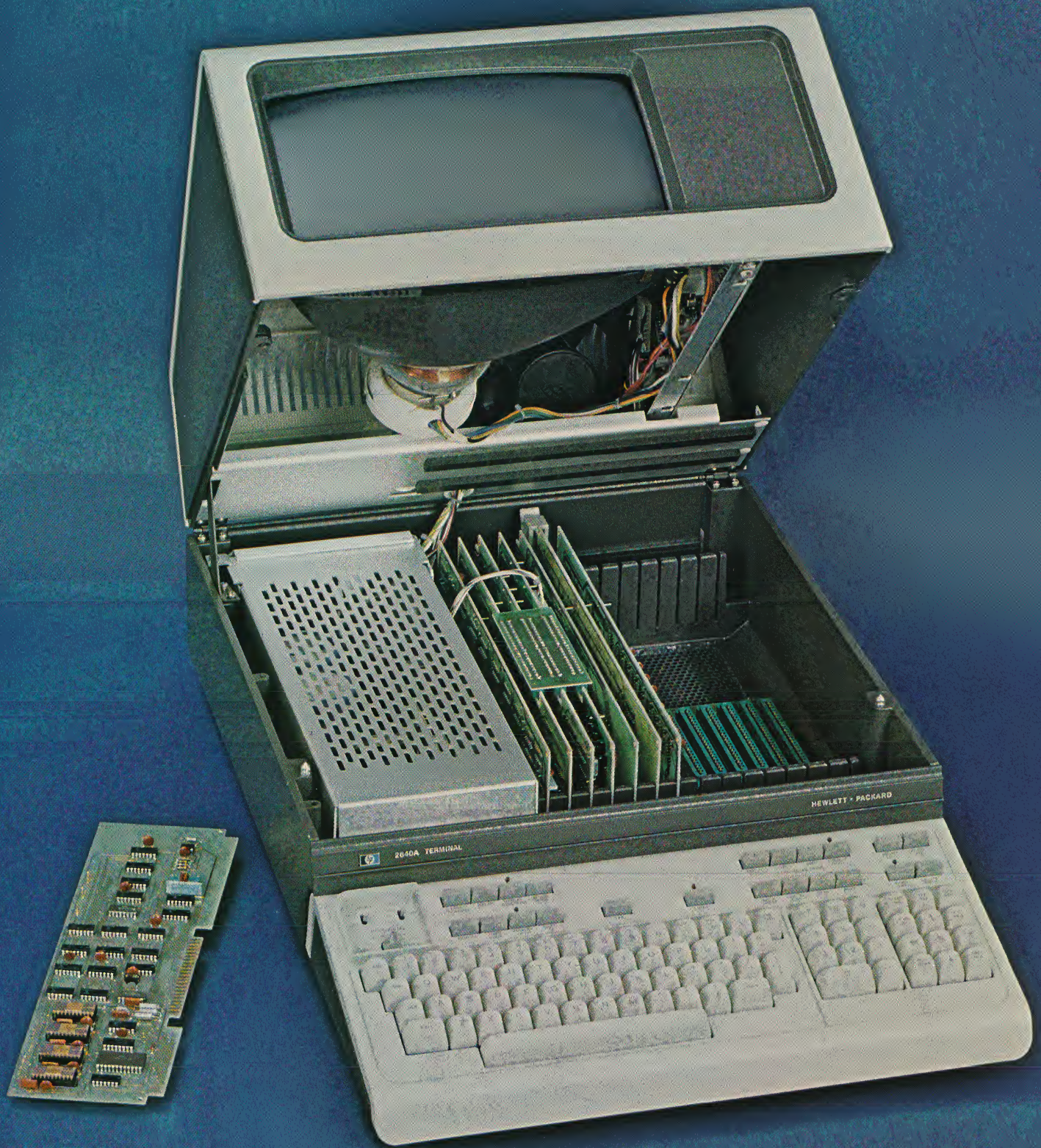
Hewlett-Packard's tradition of high reliability and maintainability are key to the 2640A's design. For example, depress the single TEST key . . . and the terminal tests itself. Then take a look at the 2640A's modular structure, and you'll see how easy it is to maintain and repair TODAY — and enhance in the FUTURE.

All of these factors taken together make the Hewlett-Packard 2640A Terminal one of the most important new electronic products for the FUTURE available TODAY.

### **FEATURES:**

- **Enhanced High-Resolution Display**
- **Full Editing Capability — Character/Block Mode; Stand-Alone or On-Line Operation**
- **Multi-Task Keyboard**
- **Dynamically Allocated Memory**
- **Pop-In Modularity and Expandability**
- **Self-Test**
- **Plug-In Character Sets**
- **Microprocessor Control**







Take the intelligent next  
the Hewlett-Packard 2640A  
Interactive Display Terminal





...next step...  
640A  
minimal

HEWLETT • PACKARD





### Dynamically Allocated Memory

- Packs more information into the terminal's available memory through efficient, dynamic allocation of memory segments (transparent to the user) — no need for storage of blanks to the right of information displayed.
- Allows storing of from 8 to 50 lines, dependent on length, in the standard 1024 bytes of memory; with optional expansion to 8192 bytes for over 400 lines of capacity.

### Pop-In Modularity and Expandability

- Modular, computer-like construction with Single Bus architecture.
- Designed to fill a wide range of capabilities and future enhancements with potential for expansion to meet changing needs, or as new technologies and devices become available.
- Accommodating up to 14 logic cards for a flexible choice of options.

### Self-Test

- Terminal designed for high up-time and reliability, ease of maintenance testing and quick repair, even in the remotest of locations.

- Self-Test of major terminal areas performed at any time by pressing a single TEST button on the keyboard for assurance that the terminal is working properly.

### Plug-In Character Sets

- Capacity to use four 128-character sets concurrently with adjacent characters displayable from any of the character sets — transparent control codes.
- Standard 64 character Roman character set; optional 128 character Roman set.
- Inverse video standard with optional Underline, Blinking, and Half-Bright displayable in any combination; optional Math Character Set, Line Drawing Set.

### Microprocessor Control

- Terminal operation firmware controlled under the supervision of the 2640A's internal microprocessor: memory allocation, data communication, keyboard scanning, and display control.



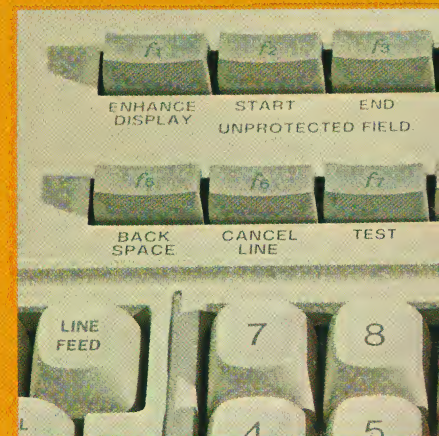


### Enhanced High-Resolution Display

- Clarity and precise character definition: 7x9 dot character matrix generated from a 9x15 dot character display cell; dot shifting for character curve smoothing.
- 1,920 character capacity in 24 lines of 80 characters per line on a 5 inch by 10 inch rectangular display.
- 6 dot rows between adjacent lines for distinct line separation and for use by the blinking-underline cursor, inverse video, underlining, and character descenders.
- 60 frames/second (optional 50 frames/second) refresh to eliminate flicker.

### Full Editing Capability — Character/Block Mode; Stand-Alone or On-Line Operation

- Terminal functions initiated from Computer or Keyboard.
- Programmable protected fields in any combination of display positions.
- 8 special function keys for user-defined routines, such as forms entry or on-line automatic error correction.
- Character insert and delete, line insert and delete, display clear.
- Scroll up, scroll down, next page, previous page.
- Cursor addressability and positioning: Up, Down, Left, Right, Home.
- Standard horizontal tabulation and protected field tabulation.
- Positionable memory protect.
- Character mode for completely interactive terminal operation; Block Mode for block transfer, composing and editing off-line before transmission, and forms operations.
- Data communications; EIA RS-232C serial asynchronous; Full/Half duplex; 103 and 202



Modem compatible; switch selectable data rate of 110, 150, 300, 1200, 2400 baud.

- Hard-copy interface; considerable flexibility for adding devices and other interfaces in the future.

### Multi-Task Keyboard

- Detachable, expanded ASCII keyboard designed for easy use and flexibility, to fill the needs of a wide variety of tasks.
- Ten-key numeric pad; cursor, tab and page control pad; 22 additional editing, control and special function keys.
- N-key roll-over and multi-speed auto-repeat.
- Optional limited keyboard available.









2640A TERMINAL

**I'm impressed with the 2640A terminal.**

If it is everything you say it is, I can use \_\_\_\_\_ terminals this year for connection to a  
(Number of)  
\_\_\_\_\_ computer system via: ☐ Hardwire ☐ Phone line  
(System name)

☐ Give me a call. ☐ Send me more details.

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Company \_\_\_\_\_ Address \_\_\_\_\_ Phone No. \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

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